

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WH2XRS

(Call Sign)

0011-EX-CM-2020

(File Number)

NAME Northrop Grumman Systems Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

- (1) Hanover (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-42-09
- (2) Linthicum (ANNE ARUNDEL), MD - NL 39-10-57; WL 76-41-22

Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-42-09

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1030 MHz  | FX            | 7M00V1D             | 661 W (ERP)      |                           |

Linthicum (ANNE ARUNDEL), MD - NL 39-10-57; WL 76-41-22

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1030 MHz  | FX            | 7M00V1D             | 661 W (ERP)      |                           |

This authorization effective March 18, 2020 and  
will expire 3:00 A.M. EST July 01, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) THE FOLLOWING ARE FAA CONDITIONS TO BE ADDED TO FCC LICENSE WH2XRS FOR 1030MHZ (1) 1030MHZ ASSIGNMENT IS FOR THE UPX-44 INTERROGATOR WITH G/ATOR TPS-80 RADAR FOR TEST OF RANDOM AIRBORNE TRANSPONDERS, (2) PERMISSION TO RADIATE IS ONLY FOR INTERROGATORS WITH P/NS WITH AN AIMS CERTIFICATION LETTER, (3) ONLY MODES 1,2,3/A AND C ARE ALLOWED, (4) MAX PRR IS 354, (5) MAX PWR IS 661W ERP OR 3.162KW PEAK TRANSMITTER PWR, (6) RADIATION SHALL BE PERFORMED IN 25 MINUTES PERIOD, (7) TWO MD LOCATIONS PERMITTED BUT ONLY ONE MAY RADIATE AT A TIME, (8) HANOVER MUST BLANK AZ 178 TO 135 DEG. TRANSMISSION ARE ALLOWED 135-178 DEG. (9) LINTHICUM MUST BLANK AZ 16 TO 266 DEG, (10) STOP BUZZERS AT HANOVER ARE 410-765-2333 AND 410-765-2818, (11) STOP BUZZER AT LINTHICUM IS 410-993-5485.